PS 123 Flexible Conduit Adapter Kit Instruction Guide

The Flexible Conduit Adapter Kit includes the following parts:

- One EMT adaptor plate
- One 6-foot long electrical conduit
- Three 7.5 feet, 18-gauge spade connector power wires
- One UL rated zip tie wrap
- Three auxiliary crimp style spade connectors designed for 14- to 16-gauge wires

NOTE *If needed, Extron recommends using a UL-rated crimp tool to terminate the spade connectors. One recommended choice is the Molex crimp tool (Molex part #**19285-0008**).*

The kit provides a convenient means to replace the IEC power cord of the Extron PS 123 12 VDC, 3 Amp power supply (part #60-814-01) with conduit, where required by local codes.

Make sure that the source device, the PS 123 power supply, and all output devices are turned off and disconnected from the power source before you begin.

WARNING *The circuit breaker used for this connection should be rated a minimum of 20 Amps.*

WARNING *Installation and service must be performed by a qualified electrician only.*

CAUTION *A UL listed electrical distribution box is recommended for the termination of the conduit opposite the PS 123 power supply. See "UL requirements", below.*

UL requirements

The Underwriters Laboratories (UL) requirements listed below pertain to the installation of the flexible conduit onto a PS 123 power supply.

- This unit is not to be used beyond its rated voltage range.
- This unit must be wired to a UL listed distribution box.

NOTE *The UL approved electrical distribution box is not included with either the PS 123 power supply or the Flexible Conduit Adapter Kit; the installer is responsible for obtaining and installing the box.*

- This unit must be installed in accordance with the National Electrical Code and with all local codes.

Installing the flexible conduit cable

Install the flexible conduit cable assembly to the PS 123 as follows:

1. Unplug the IEC power cord.

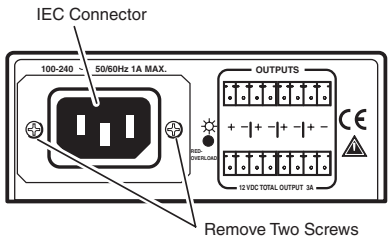
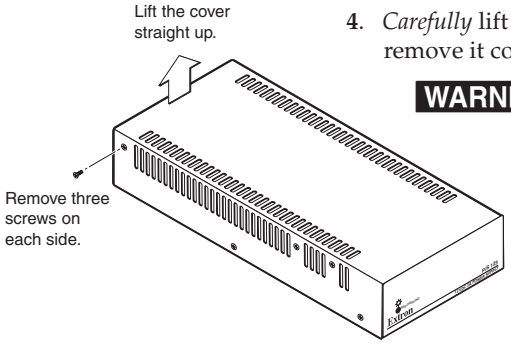


Figure 1 — Removing the EMT plate

2. Remove and retain the two Phillips head screws that secure the **IEC plate** (figure 1, at left) to the PS 123 rear panel.
3. Remove and retain the six screws that connect the top cover of the PS 123 to its bottom board (figure 2, below).



4. *Carefully* lift the top cover up, taking care not to remove it completely.

WARNING *Rough handling of the top cover can tear the wiring that connects the front panel LED.*

Figure 2 — Removing the top cover

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5. Use a standard screwdriver to loosen the screws holding the **hot** and **neutral wires** on the side of the **terminal block** nearest the IEC plate (figure 3, below).

6. Unscrew the IEC connector ground wire from the **ground wire nut** on the bare metal bottom of the PS 123 enclosure.

7. From the rear panel end, pull the IEC connector (figure 1) out of the enclosure.

8. Thread the 18-gauge power wires through the length of the electrical conduit tube.

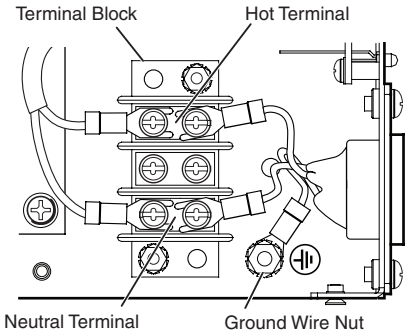

Figure 3 — Terminal block and IEC wiring

9. Install the **EMT adapter plate** (figure 4) (with conduit attached) into the opening from which you removed the IEC in step **7**. Use the Phillips head screws (figure 1) that you removed in step **2** to attach the EMT adapter plate.

10. Slide the **conduit nut** (figure 4) over the bundle of wires exiting the conduit and onto the conduit itself *inside* the PS 123. Hand-tighten the nut.

11. Attach and screw down the **hot** and **neutral** wires exiting from the conduit to their corresponding screws on the terminal block.

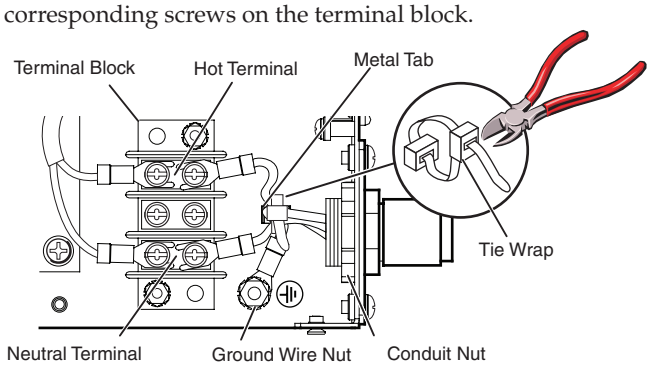

Figure 4 — Terminal block and conduit wiring

WARNING *Ensure that you observe wire polarity. Figure 4 shows the location of the neutral and hot poles on the mother board connector. The conduit wiring harness' neutral wire is identified with a tag marked "N" (neutral).*

12. Attach the ground wire from the conduit to the PS 123's bare metal plate bottom, securing it by reattaching the ground wire nut.

13. Thread a tie wrap through the **metal tab** on the bare metal bottom of the PS 123, place all the wires within its cradle, and zip the **tie wrap** over the bundle of wires.

14. Ensure that the conduit nut from step **10** (figure 4, above) firmly secures the conduit EMT adapter plate to the power supply.

15. Use the six screws you removed in step **3** to secure the top cover of the PS 123 back onto its bottom board (figure 2).

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